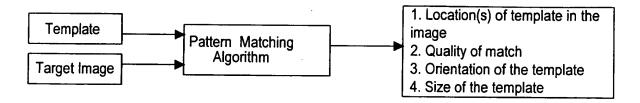
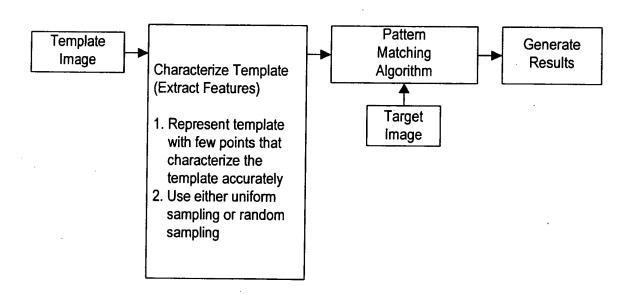
1/15



PRIOR ART PATTERN MATCHING

FIG. 1



PRIOR ART PATTERN MATCHING WITH CHARACTERIZATION OF THE TEMPLATE IMAGE

FIG. 2

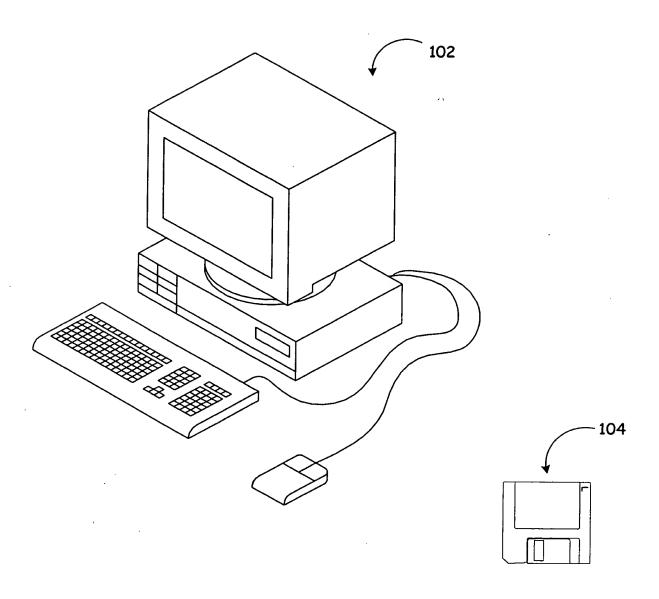


FIG. 3

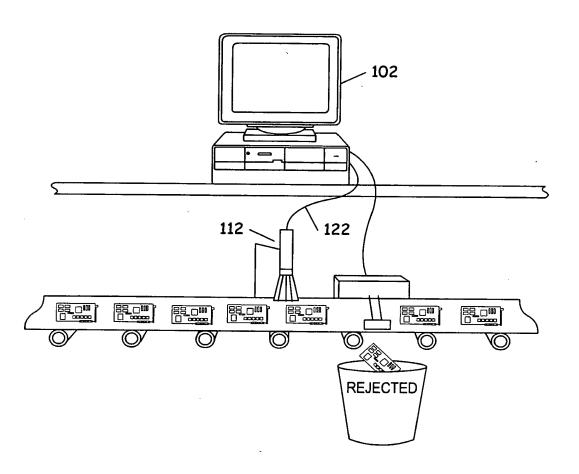


FIG. 4

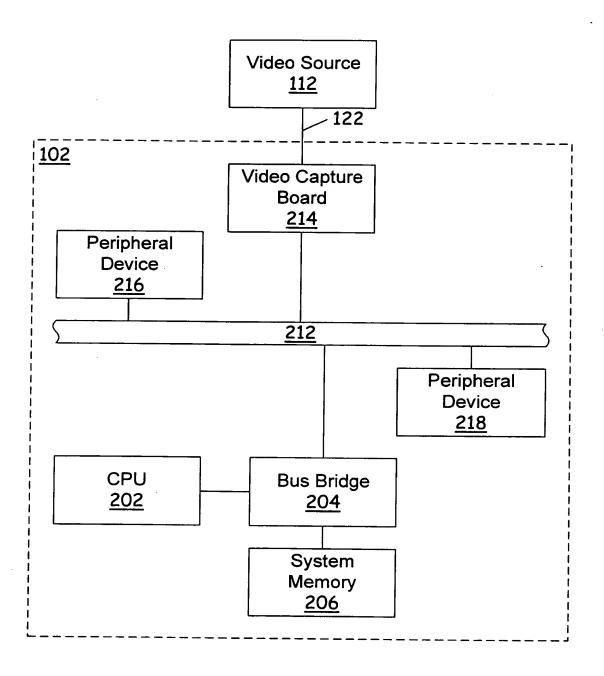


FIG. 5

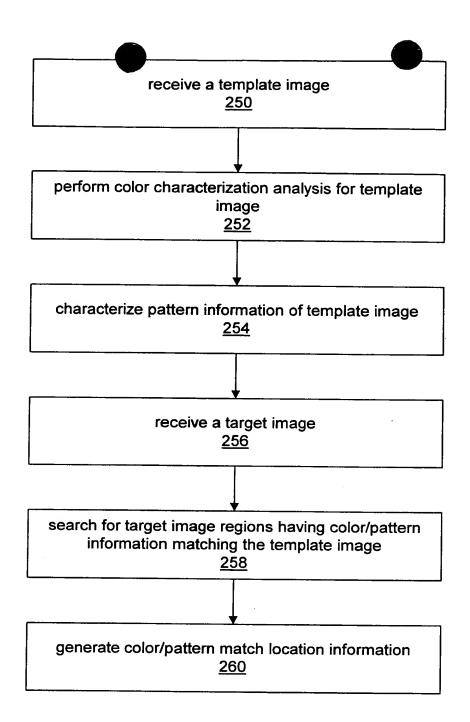
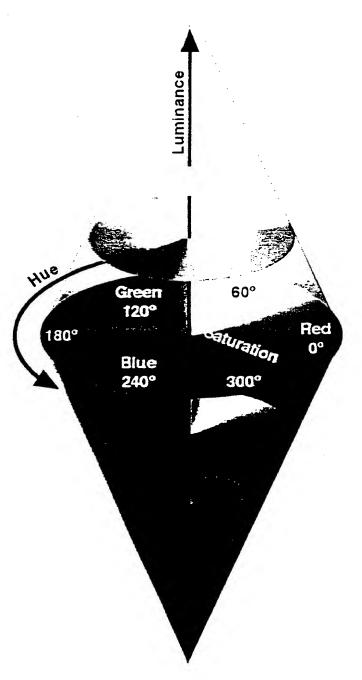


Figure 6

White



Black

FIG. 4 (need color print)

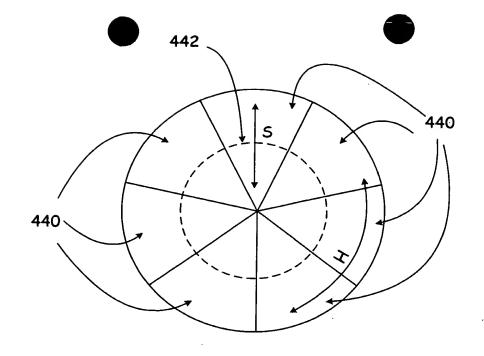


FIG. 8A

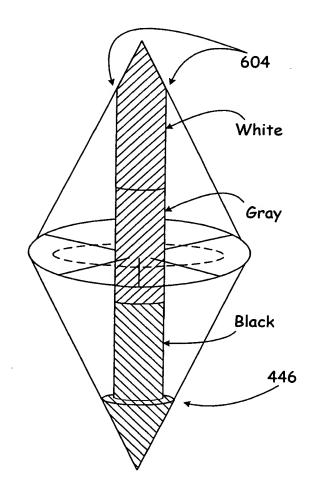


FIG. 8B

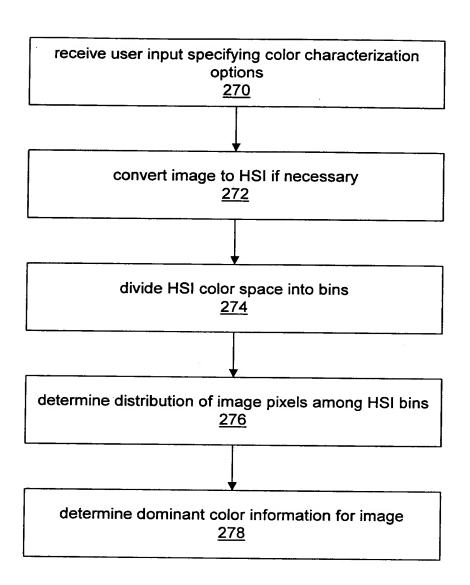


Figure 9

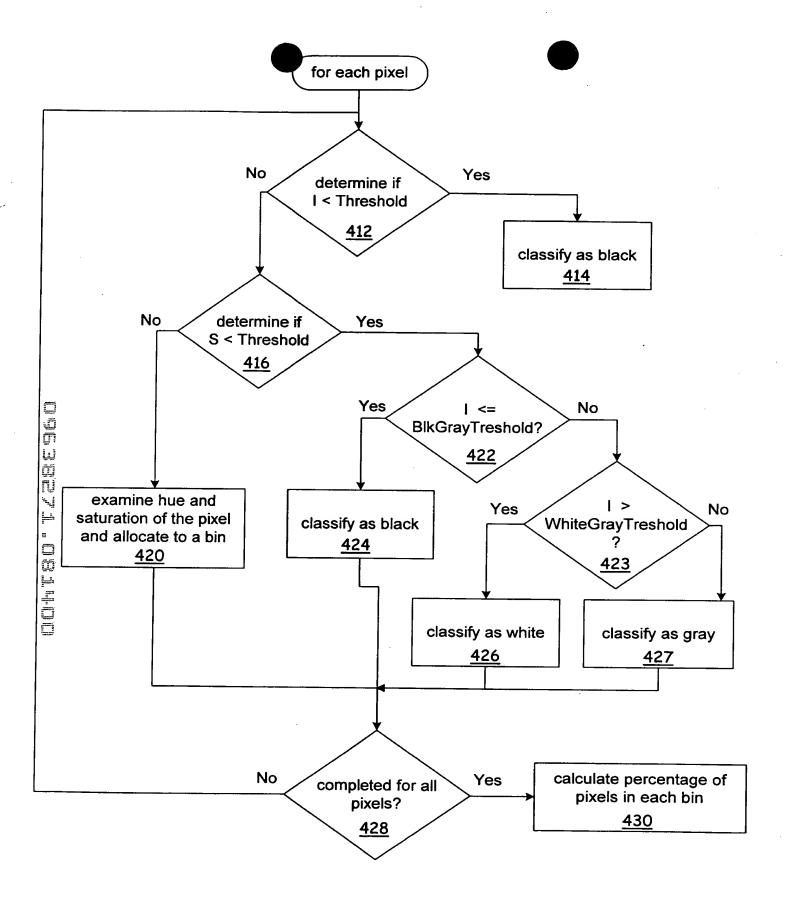


FIG. 10

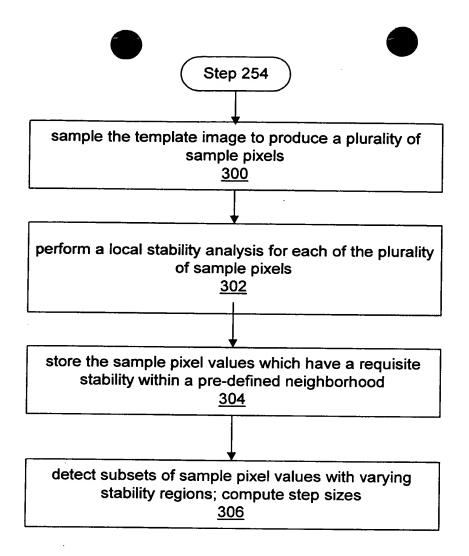


Figure 11

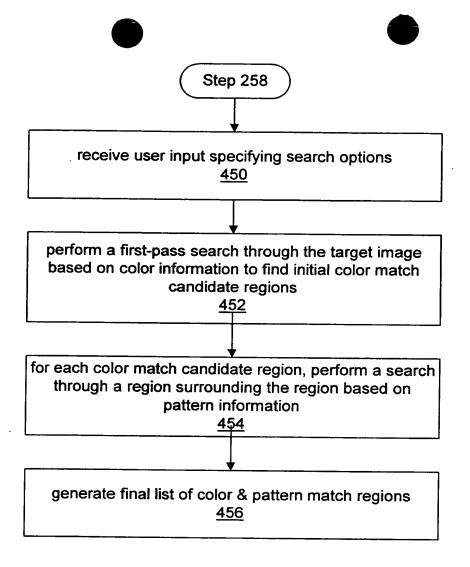
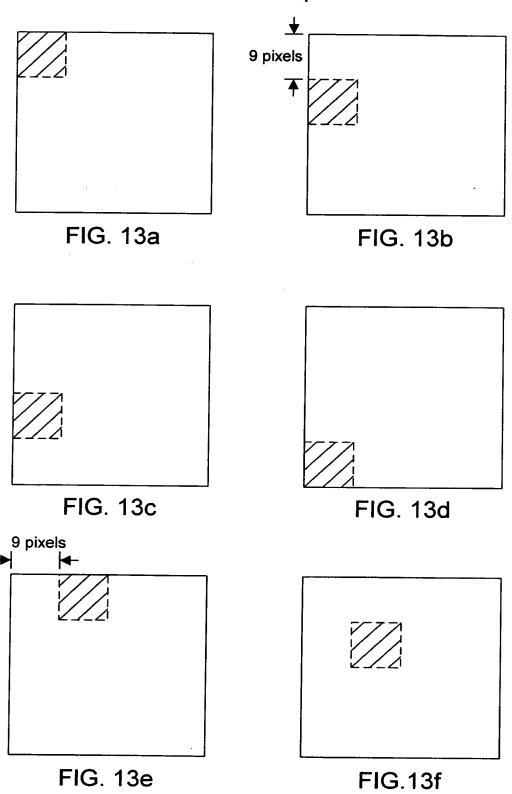


Figure 12

9 x 9 Pixel Step Size



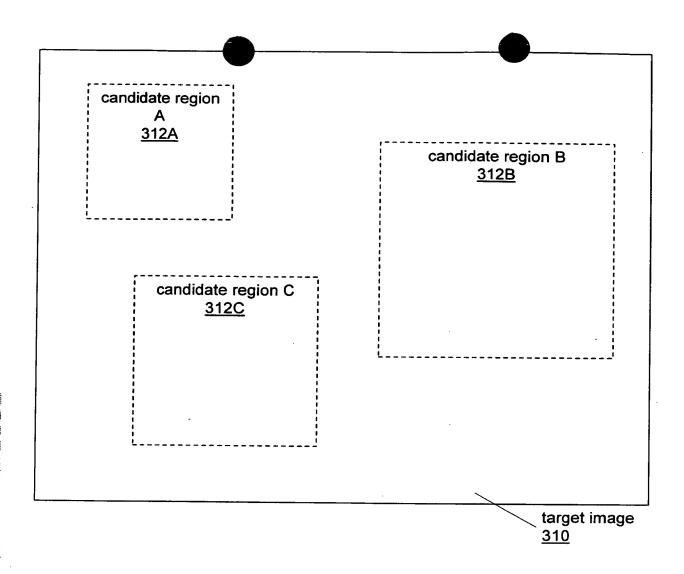


Figure 14

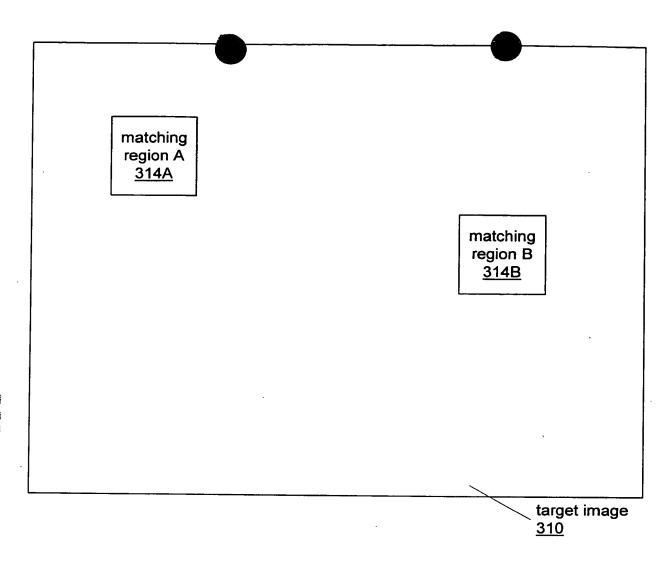


Figure 15

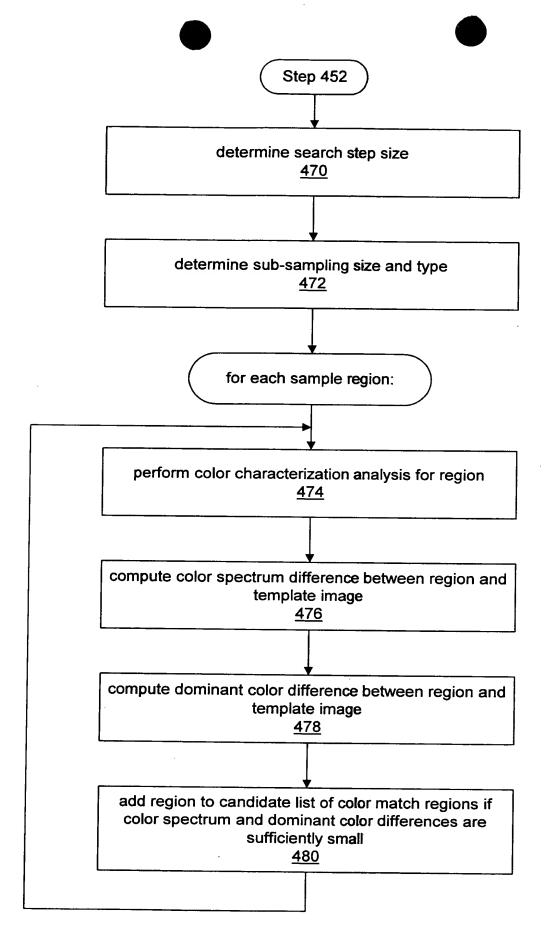


Figure 16

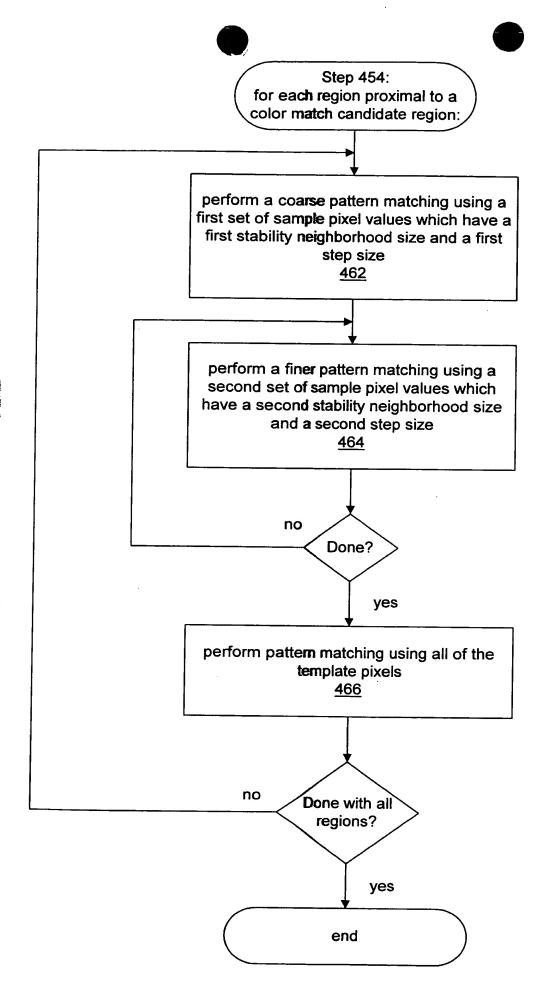
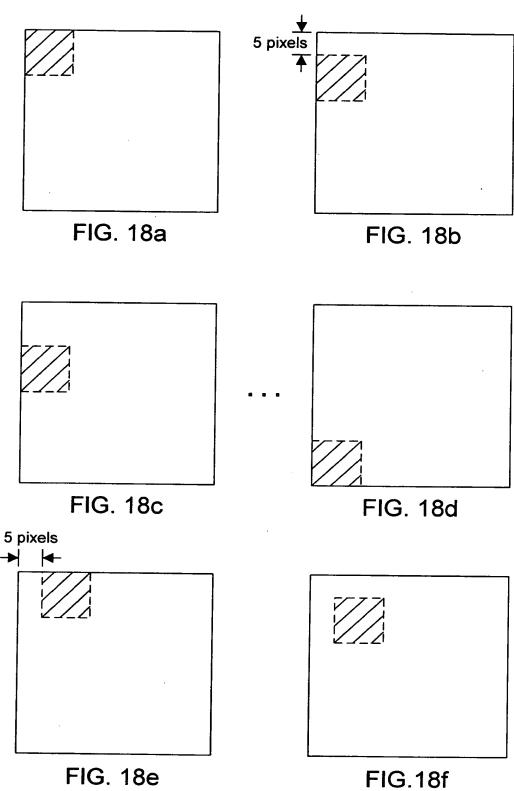


Figure 17

5 x 5 Pixel Step Size



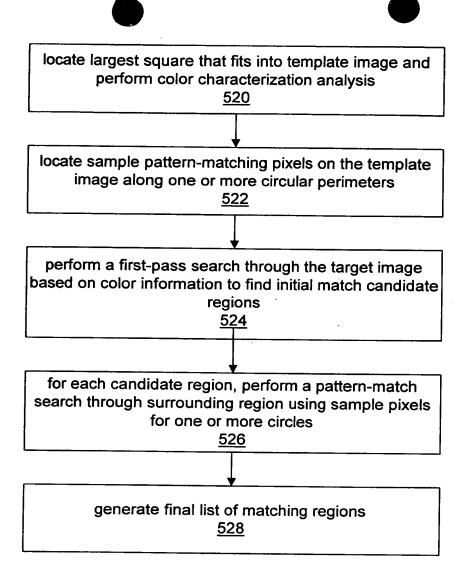
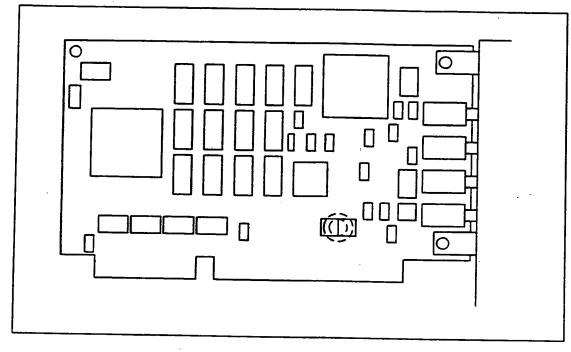


Figure 19

Figure 20

13/15



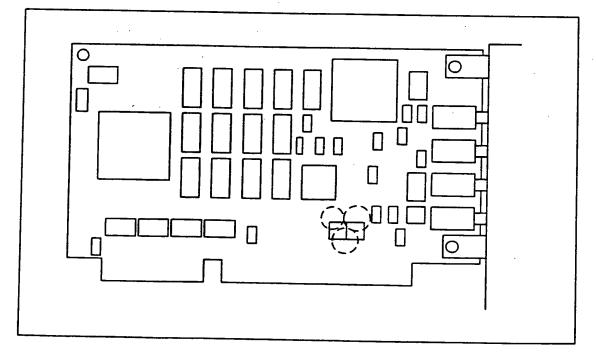


FIG. 14B

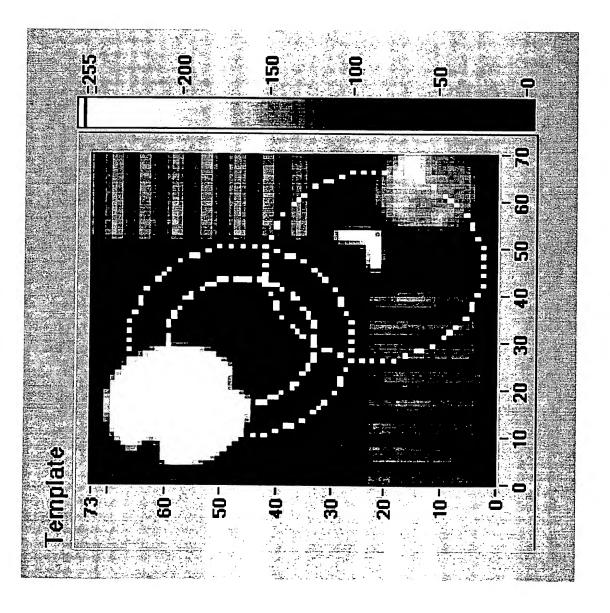


FIG. 22

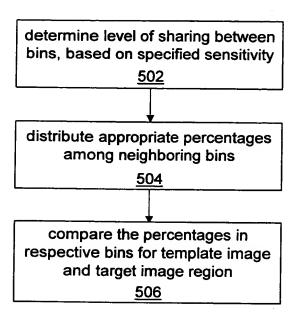


Figure 23

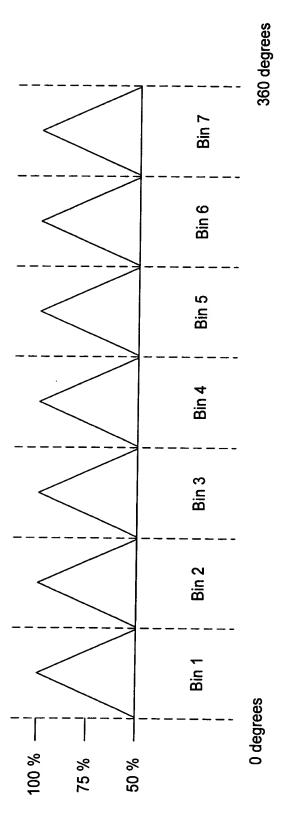


Figure 24

| | | | | 0.05 | Bin X+2 | |
|---|---------|---|------|------|---------|---|
| | | - | 0.15 | | Bin X+1 | |
| | 0.8 0.8 | | | | Bin X | |
| _ | | | 0.15 | | Bin X-1 | |
| - | | | | 0.05 | Bin X-2 | _ |
| | | | | | | |

Figure 25

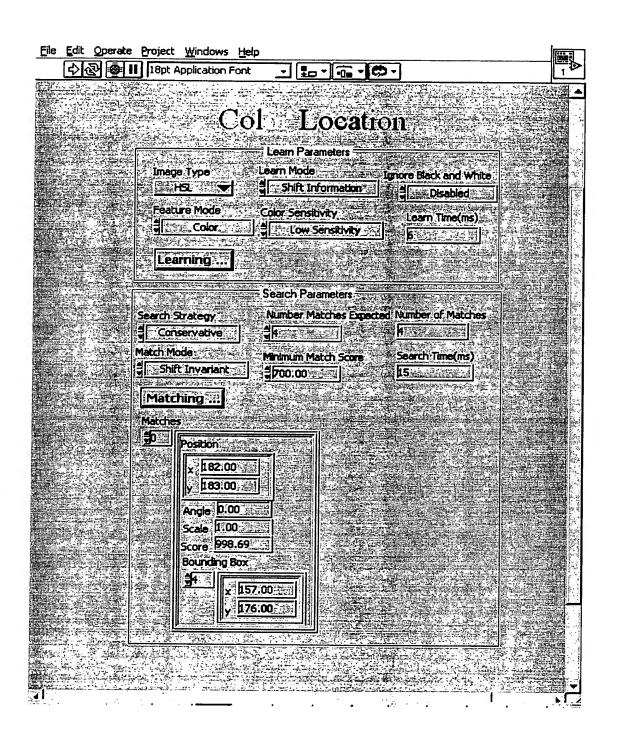


Figure 26

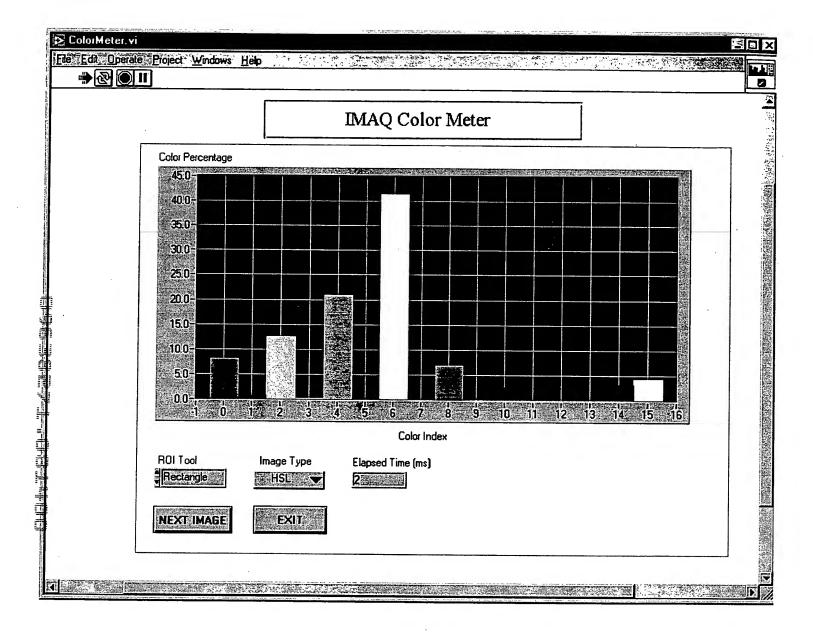


FIG. 27